

ABSTRACT OF THE DISCLOSURE

A communication scheme is employed for transmitting control signals from a remote control to a toy vehicle. The remote control includes control switches, an encoder and a transmitter and the toy vehicle includes a receiver, a decoder and actuators for controlling the operation of the toy vehicle in accordance with received control signals. The encoder generates a continuous stream of control signal packets with each of the packets including a predetermined number of biphase encoded bits. Each biphase encoded bit is of the same predetermined width with a 50% duty cycle, including two transmit elements. For one binary state, both of the transmit elements are the same and for the other binary state both of the transmit elements are opposite. Each packet includes a first predetermined number of flag bits, a second predetermined number of data bits and at least one checksum bit.